

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of the claims.

Listing of Claims:

- 1-28. (canceled)
29. (currently amended) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
 - (a) a protein whose sequence consists of amino acid residues 1 to 415 of SEQ ID NO:2;
 - (b) a protein fragment of SEQ ID NO:2 that is encoded by a polynucleotide fragment of SEQ ID NO:1, wherein said polynucleotide fragment ~~comprises~~ is at least 30 contiguous nucleotides of SEQ ID NO:1 in length; and
 - (c) a protein fragment of SEQ ID NO:2 that is encoded by a polynucleotide fragment of SEQ ID NO:1, wherein said polynucleotide fragment ~~comprises~~ is at least 50 contiguous nucleotides of SEQ ID NO:1 in length.
30. (previously presented) The antibody or portion thereof of claim 29 that specifically binds protein (a).
31. (previously presented) The antibody or portion thereof of claim 29 that specifically binds protein (b).
32. (previously presented) The antibody or portion thereof of claim 29 that specifically binds protein (c).
33. (withdrawn) The antibody or portion thereof of claim 29 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.
34. (withdrawn) The antibody or portion thereof of claim 29 which is a monoclonal antibody.
35. (withdrawn) The antibody or portion thereof of claim 29 which is a polyclonal antibody.

36. (withdrawn) The antibody or portion thereof of claim 29 which is a chimeric antibody.

37. (withdrawn) The antibody or portion thereof of claim 29 which is a humanized antibody.

38. (withdrawn) The antibody or portion thereof of claim 29 which is a human antibody.

39. (withdrawn) The antibody or portion thereof of claim 29 which is a single chain antibody.

40. (withdrawn) The antibody or portion thereof of claim 29 which is a Fab fragment.

41. (withdrawn) A composition comprising the antibody or portion thereof of claim 29 and a carrier.

42. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a monoclonal antibody.

43. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a chimeric antibody.

44. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a humanized antibody.

45. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a human antibody.

46. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a single chain antibody.

47. (withdrawn) The composition of claim 41, wherein the antibody or portion thereof is a Fab fragment.

48. (withdrawn) An isolated cell that produces the antibody of claim 29.

49. (withdrawn) A hybridoma that produces the antibody of claim 29.

50. (withdrawn) A hybridoma that produces the antibody of claim 34.

51. (currently amended) An isolated antibody or portion thereof produced by immunizing an animal with a protein selected from the group consisting of:

(a) a protein whose sequence consists of amino acid residues 1 to 415 of SEQ ID NO:2;

(b) a protein fragment of SEQ ID NO:2 that is encoded by a polynucleotide fragment of SEQ ID NO:1, wherein said polynucleotide fragment ~~comprises~~ is at least 30 contiguous nucleotides of SEQ ID NO:1 in length; and

(c) a protein fragment of SEQ ID NO:2 that is encoded by a polynucleotide fragment of SEQ ID NO:1, wherein said polynucleotide fragment ~~comprises~~ is at least 50 contiguous nucleotides of SEQ ID NO:1 in length;

wherein said antibody or portion thereof specifically binds to the amino acid sequence of SEQ ID NO:2.

52. (previously presented) The antibody or portion thereof of claim 51 produced by immunizing an animal with protein (a).

53. (previously presented) The antibody or portion thereof of claim 51 produced by immunizing an animal with protein (b).

54. (previously presented) The antibody or portion thereof of claim 51 produced by immunizing an animal with protein (c).

55. (previously presented) An isolated antibody or portion thereof that specifically binds to a protein whose sequence consists of an antigenic fragment of the amino acid sequence of SEQ ID NO:2.

56. (withdrawn) The antibody or portion thereof of claim 55 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

57. (withdrawn) The antibody or portion thereof of claim 55 which is a monoclonal antibody.

58. (withdrawn) The antibody or portion thereof of claim 55 which is a polyclonal antibody.

59. (withdrawn) The antibody or portion thereof of claim 55 which is a chimeric antibody.

60. (withdrawn) The antibody or portion thereof of claim 55 which is a humanized antibody.

61. (withdrawn) The antibody or portion thereof of claim 55 which is a human antibody.

62. (withdrawn) The antibody or portion thereof of claim 55 which is a single chain antibody.

63. (withdrawn) The antibody or portion thereof of claim 55 which is a Fab fragment.

64. (previously presented) A composition comprising the antibody or portion thereof of claim 55 and a carrier.

65. (withdrawn) The composition of claim 64, wherein the antibody or portion thereof is a chimeric antibody.

66. (withdrawn) The composition of claim 64, wherein the antibody or portion thereof is a humanized antibody.

67. (withdrawn) The composition of claim 64, wherein the antibody or portion thereof is a human antibody.

68. (withdrawn) The composition of claim 64, wherein the antibody or portion thereof is a single chain antibody.

70. (withdrawn) The composition of claim 64, wherein the antibody or portion thereof is a Fab fragment.

71. (withdrawn) An isolated cell that produces the antibody of claim 55.

72. (withdrawn) A hybridoma that produces the antibody of claim 55.

73. (withdrawn) A hybridoma that produces the antibody of claim 57.

74. (previously presented) An isolated antibody or portion thereof produced by immunizing an animal with a protein whose sequence consists of an antigenic fragment of the amino acid sequence of SEQ ID NO:2, wherein said antibody or portion thereof specifically binds to the amino acid sequence of SEQ ID NO:2.

75. (currently amended) An isolated antibody or portion thereof that specifically binds to a protein selected from the group consisting of:

(a) a protein whose sequence consists of the amino acid sequence of the polypeptide encoded by the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334;

(b) a protein fragment that is encoded by a polynucleotide fragment of the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334, wherein said polynucleotide fragment ~~comprises~~ is at least 30 contiguous nucleotides ~~of the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334~~ in length; and

(c) a protein fragment that is encoded by a polynucleotide fragment of the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334, wherein said polynucleotide fragment ~~comprises~~ is at least 50 contiguous nucleotides ~~of the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334~~ in length.

76. (previously presented) The antibody or portion thereof of claim 75 that specifically binds protein (a).

77. (previously presented) The antibody or portion thereof of claim 75 that specifically binds protein (b).

78. (previously presented) The antibody or portion thereof of claim 75 that specifically binds protein (c).

79. (withdrawn) The antibody or portion thereof of claim 75 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

80. (withdrawn) The antibody or portion thereof of claim 75 which is a monoclonal antibody.

81. (withdrawn) The antibody or portion thereof of claim 75 which is a polyclonal antibody.

82. (withdrawn) The antibody or portion thereof of claim 75 which is a chimeric antibody.

83. (withdrawn) The antibody or portion thereof of claim 75 which is a humanized antibody.

84. (withdrawn) The antibody or portion thereof of claim 75 which is a human antibody.

85. (withdrawn) The antibody or portion thereof of claim 75 which is a single chain antibody.

86. (withdrawn) The antibody or portion thereof of claim 75 which is a Fab fragment.

87. (withdrawn) A composition comprising the antibody or portion thereof of claim 75 and a carrier.

88. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a monoclonal antibody.

89. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a chimeric antibody.

90. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a humanized antibody.

91. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a human antibody.

92. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a single chain antibody.

93. (withdrawn) The composition of claim 87, wherein the antibody or portion thereof is a Fab fragment.

94. (withdrawn) An isolated cell that produces the antibody of claim 75.

95. (withdrawn) A hybridoma that produces the antibody of claim 75.

96. (withdrawn) A hybridoma that produces the antibody of claim 80.

97. (currently amended) An isolated antibody or portion thereof produced by immunizing an animal with a protein selected from the group consisting of:

(a) a protein whose sequence consists of the amino acid sequence of the polypeptide encoded by the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334;

(b) a protein fragment that is encoded by a polynucleotide fragment of the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334, wherein said polynucleotide fragment ~~comprises~~ is at least 30 contiguous nucleotides of the ~~HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334~~ in length; and

(c) a protein fragment that is encoded by a polynucleotide fragment of the complete HSATU68 polypeptide coding region polynucleotide contained in ATCC Deposit Number 97334, wherein said polynucleotide fragment ~~comprises~~ is at least 50

contiguous nucleotides of the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334 in length.

98. (previously presented) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (a).

99. (previously presented) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (b).

100. (previously presented) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (c).

101. (previously presented) An isolated antibody or portion thereof that specifically binds to a protein whose sequence consists of the amino acid sequence of an antigenic fragment of the polypeptide encoded by the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334.

102. (withdrawn) The antibody or portion thereof of claim 101 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

103. (withdrawn) The antibody or portion thereof of claim 101 which is a monoclonal antibody.

104. (withdrawn) The antibody or portion thereof of claim 101 which is a polyclonal antibody.

105. (withdrawn) The antibody or portion thereof of claim 101 which is a chimeric antibody.

106. (withdrawn) The antibody or portion thereof of claim 101 which is a humanized antibody.

107. (withdrawn) The antibody or portion thereof of claim 101 which is a human antibody.

108. (withdrawn) The antibody or portion thereof of claim 101 which is a single chain antibody.

109. (withdrawn) The antibody or portion thereof of claim 101 which is a Fab fragment.

110. (previously presented) A composition comprising the antibody or portion thereof of claim 101 and a carrier.

111. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a monoclonal antibody.

112. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a chimeric antibody.

113. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a humanized antibody.

114. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a human antibody.

115. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a single chain antibody.

116. (withdrawn) The composition of claim 110, wherein the antibody or portion thereof is a Fab fragment.

117. (withdrawn) An isolated cell that produces the antibody of claim 101.

118. (withdrawn) A hybridoma that produces the antibody of claim 101.

119. (withdrawn) A hybridoma that produces the antibody of claim 103.

120. (previously presented) An isolated antibody or portion thereof produced by immunizing an animal with a protein whose sequence consists of the amino acid sequence of an antigenic fragment of the polypeptide encoded by the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334, and wherein said antibody or portion thereof specifically binds to the polypeptide encoded by the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334.

121. (currently amended) An isolated antibody or portion thereof that specifically binds a recombinant HSATU68 protein expressed on the surface of a cell, wherein said cell comprises a polynucleotide selected from the group consisting of:

(a) a polynucleotide encoding amino acids 1 to 415 of SEQ ID NO:2, wherein said amino acids encode said protein; and

(b) a polynucleotide comprising the HSATU68 polypeptide coding region contained in ATCC Deposit Number 97334;

wherein said polynucleotide is operably associated with a regulatory sequence that controls gene expression.

122. (previously presented) The antibody or portion thereof of claim 121, wherein said polynucleotide is (a).

123. (previously presented) The antibody or portion thereof of claim 121, wherein said polynucleotide is (b).

124. (withdrawn) The antibody or portion thereof of claim 121 which is a monoclonal antibody.

125. (withdrawn) The antibody or portion thereof of claim 121 which is a human antibody.

126. (withdrawn) The antibody or portion thereof of claim 121 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) a Fab portion.

127. (previously presented) The antibody or portion thereof of claim 121 wherein said antibody or portion thereof specifically binds to said protein in a Western blot.

128. (previously presented) The antibody or portion thereof of claim 121 wherein said antibody or portion thereof specifically binds to said protein in an ELISA.